



Attorney Docket No. Q65313  
PATENT APPLICATION

AMENDMENT UNDER 37 C.F.R. § 1.111  
U.S. Appl. No. 09/911,519

4. *(Currently amended)* ~~The M~~method according to claim 3, comprising the step ~~wherein~~ from each reference data packet and user data packet or user data packets synchronously coded in time, a summation signal is formed which, after subsequent modulation, is transmitted to the mainframe.

5. *(Currently amended)* ~~The M~~method according to claim 1, comprising the step ~~wherein~~ at the times at which a user data packet is being transmitted, no reference data packet is transmitted.

6. *(Currently amended)* ~~The M~~method according to claim 1, wherein the pilot codes are CDMA codes and the communication codes are CDMA codes, wherein the pilot codes originate from a different CDMA code family from the communication codes and wherein no pilot code is identical to any communication code.

7. *(Currently amended)* ~~The M~~method according to claim 1, wherein the pilot codes are orthogonal to one another and the communication codes are orthogonal to one another.

8. *(Currently amended)* ~~The M~~method according to claim 1, wherein the pilot codes are not orthogonal to one another and the communication codes are orthogonal to one another.

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9. (*Currently amended*) A Mmainframe for an S-CDMA point to multi-point system for ~~transferring user data packets from terminals to the mainframe, said mainframe being suitable for~~ transferring user data packets from terminals to the mainframe, ~~repeatedly receiving a reference data packet coded with a pilot-code and containing previously~~ repeatedly receiving a reference data packet coded with a pilot-code and containing previously ~~known information on each connection to a terminal and for deriving synchronisation~~ known information on each connection to a terminal and for deriving synchronization information from the signal of the reference data packet, ~~and wherein the~~ mainframe is suitable for receiving receives user data packets, coded with at least one communication code and comprising user information on each connection to a terminal.

10. (*Currently amended*) The Mmainframe according to claim 9, said the mainframe being suitable for deriving from the signal of the reference data packet information on the signal quality.

11. (*Currently amended*) The Mmainframe according to claim 9, comprising a control unit to allocate pilot codes and communication codes to terminals, wherein for each connection of a terminal to the mainframe a pilot code and at least one communication code at least for the duration of the transfer of a user data packet is assigned by the control unit.

12. (*Currently amended*) The Mmainframe according to claim 9, comprising at least one measuring unit to determine the signal-to-noise ratio for each connection to a terminal from the received pilot codes.

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13. (*Currently amended*) The Mmainframe according to claim 9, comprising at least one mainframe according to claim 9, comprising a measuring and control unit is provided to measure the signal levels of the received reference data packets and for telemetric regulation of the transmitting levels of the terminals for the reference data packets and/or the user data packets as a function of the measured signal levels.

14. (*Currently amended*) The Mmainframe according to claim 9, said mainframe being constructed as a base station for an LMDS system.

15. (*Currently amended*) A Ttransmitting device for an S-CDMA system, comprising a first coder for coding a reference data packet with a pilot code and a second coder for coding user data packets with at least one communication code are provided, wherein the reference data packet contains previously known information and the user data packets comprise the user information to be transferred and an adder is provided for adding the output signals of the coders.

16. (*Currently amended*) The transmitting device according to Claim 15, comprising a modulator for HF modulation of the output signals of the adder.

17. (*New*) The mainframe according to claim 9, repeatedly receiving only one reference data packet coded with a pilot code on each connection to a terminal.

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18. (New) The transmitting device according to claim 15, wherein only one reference device according to data packet is coded by the first coder on each connection to a mainframe coded by the first coder on each connection.

19. (New) The method of claim 1, wherein the mainframe and the terminal are always synchronized during the entire duration of the connection.

20. (New) The mainframe of claim 9, wherein the mainframe and the terminal are always synchronized during an entire duration of the connection.

21. (New) The transmitting device of claim 15, wherein the transmitting device is always synchronized to a mainframe during an entire duration of a connection thereto.

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